

Table 3. Summary of the model parameters most highly correlated with food web model-predicted tissue concentrations based on All SPAFs < 2 model performance criterion.

Parameter / Dietary Fraction / Predicted Tissue Concentration	Food Web Model Predicted Tissue Concentration								
	Phytoplankton	Zoo-plankton	Benthic Invert.	Juvenile Fish	Slender Crab	Dungeness Crab	Pacific Staghorn Sculpin	Shiner Surfperch	English Sole
Zooplankton Lipid Content	-0.03	0.40	-0.02	0.03	-0.12	-0.05	0.01	0.01	-0.02
Benthic Invert. Water Content	0.08	0.04	-0.31	-0.07	0.08	-0.03	0.01	0.07	0.17
Benthic Invert. Pore Water Ventilation Fraction	-0.10	-0.12	0.23	0.01	0.12	0.01	0.09	0.17	0.34
Juvenile Fish Lipid Content	-0.07	-0.07	-0.08	0.64	-0.02	0.04	0.27	-0.08	-0.10
Dungeness Crab Lipid Content	-0.07	-0.05	0.00	-0.02	-0.03	0.42	-0.03	0.01	-0.01
Dungeness Crab Water Content	0.06	0.04	0.02	0.02	0.04	-0.40	0.04	0.00	0.02
Slender Crab Lipid Dietary Absorption Efficiency	-0.05	-0.07	0.00	-0.03	0.73	-0.07	0.00	-0.05	0.00
Slender Crab Non-Lipid Organic Matter Dietary Absorption Efficiency	0.01	0.01	-0.01	0.05	0.41	0.04	0.01	-0.01	-0.01
Dungeness Crab Lipid Dietary Absorption Efficiency	-0.02	-0.02	-0.02	-0.05	-0.09	0.61	-0.01	0.02	-0.04
Total Concentration of PCBs in the Water Column	0.95	0.86	0.06	0.25	0.08	0.16	0.24	0.32	0.18
Zooplankton Fraction in Juvenile Fish Diet	0.14	0.16	0.05	-0.46	0.06	-0.12	-0.28	0.12	0.10
Benthic Invert. Fraction in Juvenile Fish Diet	-0.14	-0.16	-0.05	0.46	-0.06	0.12	0.28	-0.12	-0.10
Zooplankton Fraction in Sculpin Diet	0.10	0.06	0.00	0.15	0.01	0.03	-0.33	0.08	0.04
Zooplankton Fraction in Perch Diet	0.00	-0.02	-0.04	-0.05	-0.01	-0.04	-0.02	-0.71	-0.06
Benthic Invert. Fraction in Perch Diet	0.00	0.02	0.04	0.05	0.01	0.04	0.02	0.71	0.06
Phytoplankton Tissue Concentration	1.00	0.85	0.06	0.25	0.09	0.15	0.26	0.33	0.16
Zooplankton Tissue Concentration		1.00	0.07	0.25	0.04	0.13	0.25	0.34	0.18
Benthic Invert. Tissue Concentration			1.00	0.25	0.29	0.18	0.39	0.51	0.67
Juvenile Fish Tissue Concentration				1.00	0.10	0.25	0.68	0.23	0.23
Slender Crab Tissue Concentration					1.00	0.04	0.20	0.19	0.29
Dungeness Crab Tissue Concentration						1.00	0.28	0.20	0.22
Pacific Staghorn Sculpin Tissue Concentration							1.00	0.37	0.42
Shiner Surfperch Tissue Concentration								1.00	0.56

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English Sole Tissue Concentration									1.00
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